

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S5	1	"10597995".apnr.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/12 10:59
S6	5	("4014202").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2009/01/12 14:54
S7	1062	(72/402).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2009/01/12 15:09
S8	408	S7 and (swage or swaging or crimp or crimping)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/12 15:10
S9	190	S7 and (swage or swaging or crimp or crimping).ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/12 15:10
S10	25	("2999405"   "3154978"   "3335594"   "3396570"   "3417598"   "3461710"   "3762209"   "3805580"   "3851514"   "3879834").PN. OR ("4014202").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/12 15:11
S11	18	("3217519"   "3234776"   "3335594"   "3568494"   "3805580").PN. OR ("3879834").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/12 16:32
S12	242	((swage or swaging or swager or crimp or crimping or crimper) adj (press or presses or pressing)).ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/13 09:33

S13	19	("1782219"   "3762209"   "3851514"   "3879834"   "4014202"   "4071936"   "4107964").PN. OR ("4306442").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/13 10:43
S14	26	("1876950"   "3805580"   "3977065"   "4014202").PN. OR ("4107964").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/13 10:46
S15	28	("1867625"   "2231278"   "3096876"   "3335594"   "3461712"   "3568495"   "3579794").PN. OR ("3762209").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/13 11:00
S16	27	("2302674"   "2889507"   "3093182"   "3568494"   "3736788"   "3762209"   "3851514"   "4071936"   "4244091"   "4250607"   "4285228"   "4306442"   "4515006").PN. OR ("4625539").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/13 11:05
S17	99	("0141992"   "0579214"   "0696289"   "0852290"   "0915184"   "1045886"   "1230561"   "1268171"   "1758261"   "1966593"   "2452857"   "2465433"   "2553479"   "3496684"   "3898897"   "3977065"   "4041766"   "4107964"   "4215871"	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/13 11:09

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"5972016"  
"5974652"  
"6009614"  
"6024737"  
"6063102"  
"6082990"  
"6092273"  
"6167605"  
"6171327"  
"6179859").PN. OR  
("6510722").URPN.

S18	40	S12 and (hose or pipe or ferrule or tail)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/13 14:17
S19	202	S12 not S18	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/13 15:00
S20	1062	(72/402).CQLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2009/01/13 15:08
S21	1060	S20 not S12	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/13 15:08
S22	1062	(72/402).CQLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2009/01/13 15:11
S23	36	US-1322584-\$.D.ID. OR US-1818435-\$. D.ID. OR US-2182663- \$.D.ID. OR US- 3731518-\$.D.ID. OR US-3851514-\$.D.ID. OR US-4034592-\$. D.ID. OR US-4527414- \$.D.ID. OR US- 4989443-\$.D.ID. OR US-5092152-\$.D.ID. OR US-1890016-\$. D.ID. OR US-5228326- \$.D.ID. OR US- 5243846-\$.D.ID. OR US-5353623-\$.D.ID. OR US-5644945-\$. D.ID. OR US-6257042- \$.D.ID. OR US- 6484552-\$.D.ID. OR US-4306442-\$.D.ID. OR US-4774828-\$. D.ID. OR US-4766808- \$.D.ID. OR US- 5649445-\$.D.ID. OR US-4641516-\$.D.ID. OR US-3568495-\$. D.ID. OR US-2746327- \$.D.ID. OR US- 2703925-\$.D.ID. OR US-4250607-\$.D.ID. OR US-4472959-\$. D.ID. OR US-5307664- \$.D.ID. OR US-	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/13 15:22

		2302674-\$.DID. OR US-3568495-\$.DID. OR US-5243846-\$. DID. OR US-6484552				
S24	12	("3568495"   "3729789"   "4250607"   "4266336"   "4535522"   "4766808").PN. OR ("5243846").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/13 15:25
S25	8	("2988727"   "3768298"   "4306442"   "4614107"   "4766808"   "5657656"   "6415488").PN. OR ("6857305").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/13 15:59
S26	7	("3052276"   "3768298"   "4766808"   "5007280").PN. OR ("5253506").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/13 20:09
S27	22	("2115719"   "2270817"   "2756620"   "2999405"   "3093182"   "3119728"   "3851514"   "4034592"   "4034593"   "4309892"   "4515006").PN. OR ("4781055").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/13 20:21
S28	22	("0441822"   "2231278"   "2311662"   "3335594"   "3568494"   "3977065"   "4014202"   "4034592"   "4107964"   "4244091"   "4781055"   "4866973"   "4885928"   "4886975"   "4887451").PN. OR ("5799531").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/13 20:22

S29	32	("2101888"   "2381748"   "2382359"   "2711659"   "3335594"   "3461710"   "3461712"   "3731518"   "3736788"   "3742754"   "3750452"   "3785050"   "3851514"   "4034592"   "4050286"   "4285228"   "4306442").PN. OR ("4515006").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/13 20:26
S30	8	("3093182").URPN.	USPAT	OR	ON	2009/01/13 20:38
S31	26	("1876950"   "3805580"   "3977065"   "4014202").PN. OR ("4107964").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/13 20:56
S33	14	("2622652"   "3335594"   "3455140"   "3662450").PN. OR ("3736788").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/14 09:23
S34	7	BETASWAGE.as.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/14 09:34
S35	2	WO-2001021337-\$. DID. OR EP-1162012- \$.DID.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/14 09:37
S36	8	("2988727"   "3768298"   "4306442"   "4614107"   "4766808"   "5657656"   "6415488").PN. OR ("6857305").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/14 09:45
S37	1017	(29/237).CCL.S.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2009/01/14 09:50

S38	1062	(72/402).CCL.S.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2009/01/14 10:48
S41	1973	S37 or S38	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/14 10:49
S42	810	S41 and (swage or swaging or fitting or ferrule or hose or ferrel)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/14 10:51
S43	122	S41 and (fitting with (pipe or hose or tube or tubing)) and (swage or swaging or ferrule or ferrel)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/14 10:55
S44	7	("3052276"   "3768298"   "4766808"   "5007280").PN. OR ("5253506").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/14 11:15
S45	12	("3568495"   "3729789"   "4250607"   "4266336"   "4535522"   "4766808").PN. OR ("5243846").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/14 11:16
S46	42	("1968456"   "20020035774"   "20020116045"   "20020138966"   "20020163104"   "20030192164"   "20040199239"   "3695087"   "4567650"   "5243846"   "5261263"   "5715723"   "5725519"   "5738674"   "5752405"   "5810873"   "5836952"   "5920975"   "5931851"   "6009614"   "6018857"   "6051002"   "6063102"   "6074381"	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/14 11:19

		"6082990"   "6108886"   "6125523"   "6141855"   "6167605"   "6171234"   "6202272"   "6240615"   "6306141"   "6309383"   "6352547"   "6360577"   "6387117"   "6510722"   "6568235"   "6629350"   "6651478").PN. OR ("7316147").URPN.				
S47	2	((("4873755") or ("6463778"))).PN.	USPAT	OR	OFF	2009/01/14 19:15
S48	1	US-6484552-\$.D.ID.	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/14 19:35
S49	1	wo-0121337-\$.D.ID.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/14 19:36
S50	4542	hose and fitting and wall and groove and wire	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/15 18:06
S51	725	hose and fitting and (wall same groove same wire)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/15 18:07
S52	326	(hose with fitting) and (wall same groove same wire)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/15 18:07
S53	4847	(hose with fitting) and (wall same (groove wiht wire))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/15 18:07
S54	92	(hose with fitting) and (wall same (groove with wire))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/15 18:07
S55	1356	(hose with fitting) and (wall same (groove with (wire or ring)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/15 18:08

S56	300	(hose with fitting) and (cylinder same wall same (groove with (wire or ring)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/15 18:09
S57	703	(hose with fitting) and ((cylinder or cylindrical) same wall same (groove with (wire or ring)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/15 18:09
S58	301	(hose with fitting) and (((cylinder or cylindrical) near3 wall) same (groove with (wire or ring)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/15 18:10
S59	190	(hose with fitting) and (((cylinder or cylindrical) near3 wall) same (groove with (wire or ring)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/01/15 18:10
S60	82	(hose with fitting) and (((cylinder or cylindrical) near3 wall) same (groove with (wire or ring))) and piston and fluid	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/01/15 18:18
S61	2	("5549281").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2009/01/15 18:23
S62	321	((cylinder or cylindrical) near3 wall near3 (outside or outward or outwardly)) same (groove with (wire or ring))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/01/16 11:11
S63	5668	((cylinder or cylindrical) near3 (wall or surface) near3 (outside or outward or outwardly or outer)) same (groove with (wire or ring))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/01/16 11:14
S64	5668	((cylinder or cylindrical) near3 (wall or surface) near3 (outside or outward or outwardly or outer)) same (groove with (wire or ring or o-ring))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/01/16 11:14

S65	391	((cylinder or cylindrical) near3 (wall or surface) near3 (outside or outward or outwardly or outer)) same (groove with (wire or ring or o-ring)) same (fasten or fastening or secure or securing)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/01/16 11:15
S66	70	((cylinder or cylindrical) near3 (wall or surface) near3 (outside or outward or outwardly or outer)) same (groove with (wire or ring)) same (fasten or fastening or secure or securing) and piston	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/01/16 11:18
S67	1017	(29/237).CQLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2009/01/16 11:23
S68	1062	(72/402).CQLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2009/01/16 11:23
S69	1973	S67 or S68	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/16 11:23
S70	121	S69 and (swage or swaging or fitting or ferrule or hose or ferrel) and (groove with (wire or ring))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/16 11:23
S71	200	((cylinder or cylindrical) near3 (wall or surface) near3 (outside or outward or outwardly or outer)) same (groove with (wire or ring)) same (fasten or fastening or secure or securing or lock or locking) and piston	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/01/16 11:50

S72	25	("2999405"   "3154978"   "3335594"   "3396570"   "3417598"   "3461710"   "3762209"   "3805580"   "3851514"   "3879834").PN. OR ("4014202").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/16 12:01
S73	19	("1782219"   "3762209"   "3851514"   "3879834"   "4014202"   "4071936"   "4107964").PN. OR ("4306442").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/16 12:04
S74	3	essen-f\$.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/16 12:14
S75	14	van-essen-f\$.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/16 12:15
S76	199	S71 not S70	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/01/16 12:34
S77	11	((cylinder or cylindrical) near3 (wall or surface) near3 (outside or outward or outwardly or outer)) same (groove with (wire)) same (fasten or fastening or secure or securing or lock or locking) and piston	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/01/16 12:38
S78	34	("0723025"   "0802104"   "2222819"   "2510314"   "2645513"   "2714522"   "2886005"   "2935051"   "2985140"   "3136230"   "3465650"   "3559538").PN. OR ("4167134").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/16 14:09

S79	62	("2047750"   "2603477"   "2833379"   "2857157"   "3101194"   "3338136"   "3428303"   "3447795"   "3631767"   "3665816"   "3677041"   "3693644"   "3759146"   "3777627"   "3799530"   "3947005"   "4005763"   "4076103"   "4085661"   "4126184"   "4154434"   "4167134"   "4211151"   "4219040"   "4447047"   "4512491"   "4528838"   "4529181"   "4549565"   "4550899"   "4553559"   "4572489"   "4583722"   "4585215"   "4594938"   "4628796"   "4664362"   "4741518"   "4742997"   "4765227"   "4774865"   "4792128"   "4813655"   "4838527"   "4844429"   "4934230"   "5050630"). PN. OR ("5197718"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/16 14:13
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S80	54	((cylinder or cylindrical) near3 (annular adj groove)) same ((outside or outward or outwardly or outer) near7 (inside or inward or inwardly or inner)) same (fasten or fastening or secure or securing or lock or locking)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/01/16 14:18
S81	106	((cylinder or cylindrical) near7 (annular adj groove)) same ((outside or outward or outwardly or outer) near7 (inside or inward or inwardly or inner)) same (fasten or fastening or secure or securing or lock or locking)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/01/16 14:18
S82	441	(cylinder or cylindrical) same (((rearside or backside or rear or back) adj end) or ((rear or back or end or rearside or backside or endside) adj (wall or stop))) same (groove) same (outside or outward or outwardly or outer) same (inside or inward or inwardly or inner) same (fasten or fastening or secure or securing or lock or locking)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/01/16 14:32
S83	73	(cylinder or cylindrical) same (((rearside or backside or rear or back) adj end) or ((rear or back or end or rearside or backside or endside) adj (wall or stop))) same (groove) same (outside or outward or outwardly or outer) same (inside or inward or inwardly or inner) same (fasten or fastening or secure or securing or lock or	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/01/16 14:33

		locking) and piston				
S84	1460	groove with press with fit with end	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/01/16 14:52
S85	48	groove with press with fit with end with wire	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/01/16 14:52
S86	64	groove with press with fit with ((end or rear) adj (cap or wall))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/01/16 14:54
S87	5	groove with press with fit with piston with fluid	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/01/16 14:57
S88	0	groove with press with (fit or fitting ) same fluid same wire same piston	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/01/16 14:58
S89	10	groove with press with (fit or fitting ) same fluid same wire	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/01/16 14:58
S90	308	groove with press with (fit or fitting ) same fluid	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/01/16 14:59
S91	199	groove with press with (fit or fitting ) same fluid and (cylinder or cylindrical) and (pressure or sealed or tight or tightly or hydraulic)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/01/16 15:00
S92	4	("3882703").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2009/01/16 15:08
S93	810	S69 and (swage or swaging or fitting or ferrule or hose or ferrel)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/16 15:09
S94	345	S93 and groove	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/16 15:09
S95	230	S93 and groove and (hydraulic or fluid)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/16 15:16

S96	243	S93 and groove and (hydraulic or fluid or piston)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/16 15:17
S97	47	S93 and groove and (hydraulic or fluid or piston) and wire	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/16 15:22
S98	172	S93 and groove and (hydraulic or fluid or piston) and ring	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/16 15:25
S99	124	S93 and (hydraulic or fluid or piston) and (ring same groove)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/16 15:26
S100	5008	(end adj cap) with (groove or wire or (press adj fit\$3)) and (hydraulic or fluid or piston)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/16 15:46
S101	3170	(end adj cap) with (groove or wire or (press adj fit\$3)) and (hydraulic or fluid or piston) and (cylinder or cylindrical) and pressure	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/16 15:47
S102	2316	(end adj cap) with (groove or wire or (press adj fit\$3)) and (hydraulic or fluid or piston) same (cylinder or cylindrical) and pressure	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/16 15:47
S103	893	(end adj cap) with (groove or wire or (press adj fit\$3)) same (hydraulic or fluid or piston) same (cylinder or cylindrical) and pressure	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/16 15:47
S104	533	(end adj cap) with (groove or wire or (press adj fit\$3)) same (hydraulic or fluid or piston) same (cylinder or cylindrical) same pressure	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/16 15:47

S105	1076	(end adj cap) with (groove or wire or (press adj fit\$3)) same (hydraulic or fluid or piston) same (cylinder or cylindrical)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/16 15:47
S106	1	S69 and (end adj cap) with (groove or wire or (press adj fit\$3)) same (hydraulic or fluid or piston) same (cylinder or cylindrical)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/16 15:48
S107	366503	((("29") or ("72"))). CLAS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2009/01/16 15:48
S108	48	S107 and (end adj cap) with (groove or wire or (press adj fit \$3)) same (hydraulic or fluid or piston) same (cylinder or cylindrical)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/16 15:48
S109	77	S107 and (end adj cap) with (recess or slot or groove or (press adj fit\$3)) same (hydraulic or fluid or piston) same (cylinder or cylindrical)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/16 17:00
S110	50	S107 and (end adj cap) with (recess or slot or groove or (press adj fit\$3)) same (hydraulic or fluid or piston) same (cylinder or cylindrical) and ((outside or outward or outwardly or outer) same (inside or inward or inwardly or inner))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/16 17:01

S111	50	S107 and (end adj cap) with (annular or recess or slot or groove or (press adj fit \$3)) same (hydraulic or fluid or piston) same (cylinder or cylindrical) and ((outside or outward or outwardly or outer) same (inside or inward or inwardly or inner))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/16 17:02
S112	87	S107 and (end adj cap) with (annular or recess or slot or groove or (press adj fit \$3)) same (hydraulic or fluid or piston) same (cylinder or cylindrical) and ((outside or outward or outwardly or outer) same (inside or inward or inwardly or inner))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/01/16 17:02
S113	8	("3343460").URPN.	USPAT	OR	ON	2009/01/16 17:09
S114	16	("3136230"   "3343460"   "3439399"   "3474710"   "3717070"   "4242947"   "4565506"   "5176413").PN. OR ("5456161").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/16 17:16
S115	29	yuda-lawrence\$.in.	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/16 17:32
S116	10	("2085105"   "3457841"   "4685384").PN. OR ("5778760").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/16 17:36
S117	2	("5440971").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2009/01/16 18:17

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